

LUMINAIRE TESTING LABORATORY, INC.



DATE: 02-16-2001

#05627

905 Harrison Street · Allentown, PA 18103 · (610) 770-1044 · Fax (610) 770-8912 · www.LuminaireTesting.com

LTL NUMBER: 05627

PREPARED FOR: ADVANCED OPTICAL TECHNOLOGIES

CATALOG NUMBER: LINEAR FLUORESCENT UPLIGHT VERSION 3

LUMINAIRE: FORMED STEEL SUPPORT, WHITE INTERNAL REFLECTORS, TRANSLUCENT

WHITE ACRYLIC LOWER ENCLOSURE, FORMED SPECULAR ALUMINUM

REFLECTORS, OPEN TOP.
LAMP: ONE SYLVANIA FP54/841/HO RATED AT 4400 LUMENS.

BALLAST: ONE SYLVANIA QT1X54/120PHO MOUNTING: PENDENT

LUMEN TO CANDELA RATIO USED = 9.18 TOTAL INPUT WATTS = 59.9 AT 120.0 VOLTS

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35	174	172	174	172	171	91 108		6.625"	
45 55	145 110	145 112	145 113	145 114	146	113	-	9.375"	
65	79	78	79	78	114 80	102 76			
75 85	38	39 12	41 17	43	42	44	180	165 150 135	7
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145	154	186 184	263 239	330 279	356 292	199 146	780	$k/\times \times 1$	
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90-1	50		86	61		77.0	1 \	$\setminus \times \wedge / / \setminus$	ı

76.9

81.9

100.0

79.48

TOTAL LUMINAIRE EFFICIENCY:

90-150

90-180

0-180

CIE TYPE: SEMI-INDIRECT PLANE: 0-DEG SPACING CRITERIA:

2686

2859

3493

90-DEG 1.2

61.0

65.0

79.4

TESTED BY HERSCHEL SCHRECK CHECKED BY MIKE GRATHER

90 Deg. Plane

30

O Deg. Plane

15

THIS REPORT BASED ON LM-41 AND OTHER PERTINENT IES PROCED



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80	70				. 50			30			10				
RW	70 50 3	30 10	70	50	30	10	50	30	10	50					10	0
0 1 2 3 4 5 6 7 8 9	79 79 7 72 69 6 66 60 5 60 53 4 55 47 4 50 41 3 46 37 3 42 33 2 39 30 2 36 27 2 33 24 1	66 63 55 52 47 43 41 36 85 31 81 26 27 23 44 20 11 17	70 63 58 52 48 44 40 37 34 32 29	61 53 47 41 37 33 29 26	58 49 42 36 31 27 24 21	56 46 38 32 28 24 21 18 16	46 40 35 31 28 25 22 20 18	52 44 37 32 28 24 21 19 16 15	43 35 30 25 21 18 16 14	32 28 25 22 19	10	30 25 21 18 15 13 12	19 17 15 13 12	14 12 11 9 8 7 6	18 15 13 11 10 8	14 12 10 9 8 6 5 4 4 3
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PLANE: 0-DEG 90-DEG LUMINOUS LENGTH: 46.250 9.375 HEIGHT OF SIDE: 2.250 2.250

LUMINANCE IN CANDELA PER SQUARE METER ANGLE AVERAGE AVERAGE AVERAGE IN DEG 0-DEG 45-DEG 90-DEG 0 833. 833. 833. 45 716. 1069. 738. 55 663. 919. 710. 65 635. 742. 667. 75 481. 289. 473. 415. 85 264. 202.



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CANDEI	A DIS	TRIBUT	ION			•	
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THIS TEST WAS CONDUCTED USING RELATIVE PHOTOMETRY TECHNIQUES ACCORDING TO STANDARD IESNA PROCEDURES. USER MUST THEREFORE USE CAUTION IN THE FOLLOWING SITUATIONS: SPECIFIC BALLAST/LAMP COMBINATION. EXTRAPOLATION OF THESE DATA FOR OTHER BALLAST/LAMP COMBINATIONS MAY PRODUCE ERRONEOUS RESULTS. 2) ACCORDING TO IESNA PROCEDURES, THE BALLAST(S) AND LAMP(8) ARE PRESUMED TO PRODUCE 100% OF RATED OUTPUT. AN APPROPRIATE BALLAST FACTOR MUST BE APPLIED TO THE LUMEN OUTPUT THIS TEST WAS CONDUCTED IN A CONTROLLED LABORATORY ENVIRONMENT WHERE THE AMBIENT TEMPERATURE WAS HELD AT 25°C ±1°C. FIELD PERFORMANCE MAY DIFFER PARTICULARLY IN REGARDS TO CHANGE IN LUMINOUS OUTPUT AS A RESULT OF DIFFERENCE IN AMBIENT TEMPERATURE AND METHOD OF